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99-254231-21 A-82 227 E19 F66 G62
A18 A25 A60

BADI 97.09.02

*WO 9911733-A1

A(4-E, 8-E), 9-A2, 12-B1W (D8-B1), B6-E1, G1, 2
A2B1)

a composition containing the pigment

USE

The pigment and material are used in the automobile, sporting, games and leisure areas, optical elements such as polarisers and filters, in cosmetics, textiles, leather and jewellery, gifts, spectacle frames, writing implements, household goods and in the production of dyes and paints (all claimed).

ADVANTAGE

Good optical and physical properties.

EXAMPLE

A solution was prepared from 20 pts. nematic cholesterene of formula (III) and chiral cholesterene of formula (V) mixed with Irgaeure 907 (RTM), 0.1 pts. Byk 361 (RTM) and 76.9 pts. methyl ethyl ketone and applied to a polyester film and dried. The transparent film had a reflection maximum of 528 nm and a reflection of 30% and was green-blue.

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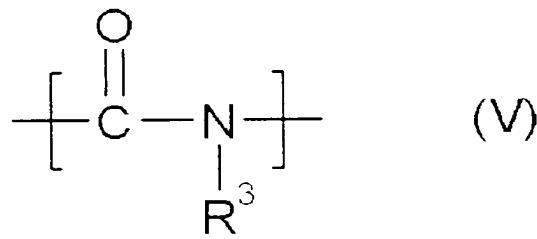
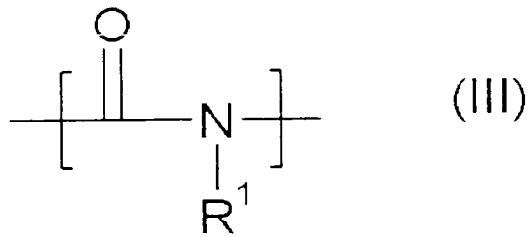
NOVELTY

Cholesteric material is produced by applying a pourable cholesteric mixture to a support and forming a solid layer.

DETAILED DESCRIPTION

Cholesteric material comprises a cholesteric layer(s) of average thickness below 0.2μ.

INDEPENDENT CLAIMS are included for the production of the material by applying a pourable cholesteric mixture to a support and forming a solid layer, a pigment obtained by grinding the material and



TECHNOLOGY FOCUS

Polymers - The mixture has a viscosity of 10-500 (10-100) mPa.s at 23°C, is applied at 1-800 (1-500) m/min. and is prepared by mixing a cholesteric monomer(s) in an inert diluent, an achiral, nematic monomer(s) and a chiral compound in an inert diluent, a cholesteric, crosslinkable oligomer or polymer in an inert diluent, a cholesteric polymer in a polymerizable diluent or a cholesteric polymer which can be congealed on rapid cooling below the T_g (claimed).

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